| Ref<br># | Hits | Search Query   | DBs   | Default<br>Operator | Plurals | Time Stamp       |
|----------|------|--|---|---------------------|---------|------------------|
|          |      | ingaas and algaas and gaas and<br>channel and light and strain and<br>substrate and transistor and and<br>electron near mobility and<br>(@ad<"20021225"<br>@rlad<"20021225")   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2007/07/09 12:42 |
|          |      | ingaas and algaas and gaas and channel and light and strain and substrate and transistor and and electron near mobility(@ad<"20021225" @rlad<"20021225")   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2007/07/09 12:42 |
|          |      | ingaas with electron near mobility<br>with cm.sup.2/v*s and<br>(@ad<"20021225"<br>@rlad<"20021225")  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2007/07/09 03:22 |
|          |      | S111 and (ingaas gainas gallium near indium near (arsenide arsenic)) same strain and (algaas gaalas aluminum near gallium (arsenic arsenide)) same electron and (hemt high near electron near mobility near transistor transistor) and | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2006/09/20 10:41 |
|          | _    | (ingaas indium near gallium near<br>(arsenic arsenide) and "77" near k<br>same nm and S95 and (algaas<br>aluminum near gasllium near<br>(arsenic arsenide))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2006/09/19 18:30 |
|          |      | S7 and hemt same strain and ingaas and algaas and  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2007/07/09 11:18 |
| L1       | 175  | ingaas and algaas and gaas and channel and light and strain and substrate and transistor and electron near mobility and (@ad<"20021225")   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2007/07/11 16:35 |

| L2 | 3243 | 257/194,192,e31.053,e33.027,e21.<br>403,e21.407.ccls. 438/172.ccls. and<br>L1 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/07/11 16:36 |
|----|------|---|---|------|----|------------------|
| L3 | 3393 | 257/194,192,e31.053,e33.027,e21.<br>403,e21.407.ccls. 438/172.ccls.           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/07/11 16:36 |
| L4 | 31   | I3 and I1   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR . | ON | 2007/07/11 16:36 |
| S1 | 1233 | 257/192.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2006/02/13 14:42 |
| S2 | 1122 | 257/194.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2006/02/13 14:42 |
| S3 | 193  | 257/195.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2006/02/13 14:42 |
| S4 | 538  | 257/190.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2006/02/13 14:42 |
| S5 | 363  | 257/20.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2006/02/13 14:43 |

| S6  | 2724 | S1 or S2 or S3 or S4 or S5   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/02/13 14:44 |
|-----|------|--|---|----|-----|------------------|
| S7  | 2351 | S6 and @ad<"20021225"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/02/13 14:46 |
| S8  | 209  | S7 and hemt and ingaas and algaas  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/02/13 14:47 |
| S9  | 13   | S7 and hemt same strain and ingaas and algaas                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/02/13 14:55 |
| S10 | 6    | S7 and hemt same strain and ingaas and algaas and wavelength                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/02/13 14:55 |
| S11 | 6    | S7 and hemt same strain and ingaas and algaas and wavelength and nm              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/02/13 14:56 |
| S12 | . 5  | S7 and hemt same strain and ingaas and algaas and wavelength and nm and emission | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/02/13 15:05 |
| S13 | 1    | (("6163599") or ("0684959") or ("2001210819") or ("0621106") or ("2708863")).PN. | JPO   | OR | OFF | 2006/02/13 15:06 |
| S14 | 0    | ("6163599").PN.  | JPO   | OR | OFF | 2006/02/13 15:06 |
| S15 | 0    | ("6-163599").PN.   | <b>ЈРО</b>  | OR | OFF | 2006/02/13 15:06 |

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|-----|--------|---|---|-------------|-----|------------------|
| S16 | 2      | ("6163599").PN.                                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR          | OFF | 2006/02/13 15:07 |
| S17 | 0      | (nec near corp).as. and<br>"19940610".rlpd.     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR          | ON  | 2006/02/13 15:38 |
| S18 | 403329 | (nec near corp).as.                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR          | ON  | 2006/02/13 15:38 |
| S19 | 245778 | (nec near corp).as.                             | JPO   | OR          | ON  | 2006/02/13 15:38 |
| S20 | 245778 | (nec near corp).as. and jp<br>"6163599"         | JPO   | OR          | ON  | 2006/02/13 15:39 |
| S21 | 0      | (nec near corp).as. and jp and "6163599"        | JPO   | OR          | ON  | 2006/02/13 15:39 |
| S22 | 245778 | (nec near corp).as. "6163599"                   | JPO   | OR          | ON  | 2006/02/13 15:39 |
| S23 | 0      | (nec near corp).as. and "6163599"               | JPO   | OR          | ON  | 2006/02/13 15:39 |
| S24 | ; 0    | (nec near corp).as. and "6-163599"              | JPO   | OR          | ON  | 2006/02/13 15:39 |
| S25 | 0      | "6-163599"                                      | JPO   | OR          | ON  | 2006/02/13 15:40 |
| S26 | 299    | (nec near corp).as. and "19940610"              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR          | ON  | 2006/02/13 15:40 |
| S27 | 0      | (nec near corp).as. and "19940610" and "163599" | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR .        | ON  | 2006/02/13 15:41 |
| S28 | 299    | (nec near corp).as. and "19940610"              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR          | ON  | 2006/02/13 16:07 |

| S29 | <b>29</b> | (nec near corp).as. and (negishi near hitoshi).in.                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR . | ON  | 2006/02/13 16:08 |
|-----|-----------|---|---|------|-----|------------------|
| S30 | 0         | (nec near corp).as. and (negishi near hitoshi).in.                        | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR   | ON  | 2006/02/13 16:08 |
| S31 | 5         | (negishi near hitoshi).in.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR   | ON  | 2006/02/13 16:08 |
| S32 | 3         | ("5400739"   "5490880"  <br>"5625204").PN. OR ("6099640").<br>URPN.       | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR   | ON  | 2006/02/13 16:18 |
| S33 | 8         | fujitsu.as. and (saito near junji).in.                                    | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR   | ON  | 2006/02/13 16:22 |
| S34 | 2         | hitachi.as. and ((sasaki near yukio).<br>in. or (tsuchiya near tadaitsu)) | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR   | ON  | 2006/02/13 16:26 |
| S35 | 0         | hitachi.as. and (tsuchiya near tadaitsu).in.                              | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR   | ON  | 2006/02/13 16:27 |
| S36 | 0         | hitachi.as. and (tadaitsu).in.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR   | ON  | 2006/02/13 16:27 |
| S37 | 0         | (tadaitsu).in.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR   | ON  | 2006/02/13 16:28 |
| S38 | 33        | (sawada near minoru).in.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR   | ON  | 2006/02/13 16:28 |
| S39 | 18        | (sawada near minoru).in. and sanyo.as.                                    | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR   | ON  | 2006/02/14 14:44 |
| S40 | 2         | ("6639254").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;                                     | OR   | OFF | 2006/02/14 15:09 |
| 1   |           |   | EPO; JPO;<br>DERWENT;<br>IBM_TDB                                  |      |     |                  |
| S41 | 9         | algaas same ingaas near strain  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON  | 2006/02/14 15:13 |

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|-------|-----|---|---|------|----|------------------|
| S42   | 632 | (ishikawa near makoto).in.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2006/02/14 15:13 |
| S43   | 114 | (ishikawa near makoto).in.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR   | ON | 2006/02/14 15:13 |
| S44   | 2   | (ishikawa near makoto).in. and hemt   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR   | ON | 2006/02/14 15:14 |
| S45   | 0   | (ishikawa near makoto).in. and nec. as.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR   | ON | 2006/02/14 15:14 |
| S46   | 114 | (ishikawa near makoto).in.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR   | ON | 2006/02/14 15:15 |
| S47   | 0   | JP02254412  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR   | ON | 2006/02/14 15:15 |
| 548   | 7   | "2254412"   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR   | ON | 2006/02/14 15:39 |
| S49   | 0   | (feng near zhao).in. and algaas and ingaas  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR   | ON | 2006/02/14 15:40 |
| S50 · | 5   | (zhao).in. and algaas and ingaas  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR   | ON | 2006/02/14 15:41 |
| S51   | 0   | (strau).in. and algaas and ingaas   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR   | ON | 2006/02/14 15:41 |
| S52   | 0   | (straub).in. and algaas and ingaas  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR · | ON | 2006/02/14 15:41 |
| S53   | 0   | (bernklau).in. and algaas and ingaas  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR   | ON | 2006/02/14 15:41 |
| S54   | 12  | (US-5825796-\$ or US-5945690-\$ or US-6639254-\$ or US-5569954-\$ or US-5625204-\$ or US-5773853-\$ or US-5751029-\$ or US-5650642-\$ or US-5404032-\$ or US-5258632-\$ or US-5406099-\$). did. | USPAT   | OR   | ON | 2006/02/14 16:29 |

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| S55  | 10   | S54 and mobility   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON . | 2006/02/14 16:30 |
| S56  | 10   | S54 and electron near mobility   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON . | 2006/02/14 16:31 |
| S57  | 4    | algaas same ingaas near strain and<br>electron near mobility   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON   | 2006/02/14 16:31 |
| .S58 | 4    | algaas same ingaas near strain and<br>electron near mobility and<br>@ad<"20021225"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON   | 2006/02/14 16:32 |
| S59  | 28   | ("4742379"   "4792832"  <br>"5021857"   "5041393"   "5060030"<br>  "5091759"   "5140386"  <br>"5196359"   "5270228"   "5272109"<br>  "5285087"   "5324682"  <br>"5330932"   "5364816"   "5372675"<br>  "5504353"   "5514605" | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON   | 2006/02/14 17:49 |
|      |      | "5521404"   "5550388"   "5641977"<br>  "5760427"   "5770525"  <br>"5811844"   "5900653"  <br>"6060402").PN. OR ("6307221").<br>URPN.   |   |    |      |                  |
| S60  | . 24 | S59 and mobility   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON   | 2006/02/14 17:49 |
| S61  | 23   | S59 and mobility and @ad<"20021225"  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON   | 2006/02/14 17:50 |
| S62  | 3721 | ingaas same algaas   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON   | 2006/09/12 19:15 |

| S63 | 23717685 | @ad<"20021225"<br>@rlad<"20021225"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;                        | OR | ON | 2006/09/12 18:57 |
|-----|----------|---|---|----|----|------------------|
| :   | !<br>!   |   | DERWENT;<br>IBM_TDB   |    |    | ·                |
| S64 | 896179   | fet hemt field near effect near<br>transistor or high near electron near<br>mobility near (field near effect near<br>transistor fet) transistor | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/12 18:59 |
| S65 | 514599   | strain  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/12 18:59 |
| S66 | 571      | strain near channel   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/12 18:59 |
| S67 | 7        | S62 and S63 and S64 and S66   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/12 19:00 |
| S68 | 4483     | (ingaas gainas) same (algaas<br>gaalas)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/12 19:19 |
| S69 | 7        | S68 and S63 and S64 and S66   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/12 19:17 |
| S70 | 5626     | (ingaas gainas gallium near indian<br>near (arsenide arsenic)) same<br>(algaas gaalas aluminum near<br>galium (arsenic arsenide))               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/12 19:21 |

| S71 | 8    | S70 and S63 and S64 and S66  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;                        | OR | ON   | 2006/09/12 19:22 |
|-----|------|--|---|----|------|------------------|
|     |      |  | DERWENT;<br>IBM_TDB   |    |      |                  |
| S72 | 9019 | (ingaas gainas gallium near indium<br>near (arsenide arsenic)) same<br>(algaas gaalas aluminum near<br>gallium (arsenic arsenide)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON   | 2006/09/20 10:39 |
| S73 | 8    | S72 and S63 and S64 and S66  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON   | 2006/09/12 19:22 |
| S74 | 6366 | hemt or (high near electron near mobility near transistor)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON . | 2006/09/19 17:41 |
| S75 | 872  | channel near5 (InGaAs or GaAsIn)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;                        | OR | ON   | 2006/09/19 17:42 |
|     |      |  | DERWENT;<br>IBM_TDB   |    |      |                  |
| S76 | 2820 | (n-type near2 AlGaAs) or n-AlGaAs<br>or ((electron near supply\$3) near5<br>AlGaAs)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON   | 2006/09/19 17:42 |
| S77 | 164  | InGaAs same (peak near5 wavelength)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON   | 2006/09/19 17:43 |
| S78 | 3    | S74 and S75 and S76 and S77  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON   | 2006/09/19 17:43 |

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| S79 | 5      | S75 and S76 and S77   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/19 17:43 |
| S80 | 872    | S75 andl3 and (peak near5 wavelength)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/19 17:43 |
| S81 | 225    | S75 and S76   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/19 17:43 |
| S82 | 15     | S81 and wavelength  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/19 17:43 |
| S83 | . 884  | S76 and (InGaAs or GaAsIn)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/19 17:43 |
| S84 | 30     | S83 and (peak near wavelength)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/19 17:44 |
| S85 | 435212 | "257"/\$.ccls. "438"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/19 17:44 |
| S86 | 5740   | 257/187,192,194,E31.053,E33.027,<br>E33.032,E33.053,E21.403,E21.407.<br>ccls. 438/22,46.ccls. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/19 17:45 |

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|-----|----------|--|---|----|----|------------------|
| S87 | 27011996 | @ad<"20050623"<br>@rlad<"20050623"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/19 17:45 |
| S88 | 23721359 | @ad<"20021225"<br>@rlad<"20021225"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/19 17:46 |
| S89 | 2        | S78 and S88  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/19 17:58 |
| S90 | 13999    | ingaas (indium near gallium near<br>arsenic) same "77" near k with nm                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/19 17:59 |
| S91 | 13999    | ingaas (indium near gallium near<br>arsenic) same "77" near k with nm<br>and S85 and S88 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/19 18:04 |
| S92 | 0        | (ingaas indium near gallium near<br>arsenic) same "77" near k with nm<br>and S85 and S88 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/19 18:05 |
| S93 | 0        | (ingaas indium near gallium near<br>arsenic) same "77" near k same nm<br>and S85 and S88 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/19 18:05 |
| 594 | 1        | (ingaas indium near gallium near<br>arsenic) same "77" near k same nm<br>and S88         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/19 18:12 |

|          | ·        |  | T   |      |    |                  |
|----------|----------|--|---|------|----|------------------|
| S95      | 23721359 | @ad<"20021225"<br>@rlad<"20021225"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2006/09/19 18:12 |
| S96      | . 20     | (ingaas indium near gallium near<br>arsenic) and "77" near k same nm<br>and S95  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2006/09/19 18:12 |
| S97      | 18       | (ingaas indium near gallium near<br>arsenic) and "77" near k same nm<br>and S95 and algaas   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2006/09/19 18:12 |
| S98      | 18       | (ingaas indium near gallium near<br>arsenic) and "77" near k same nm<br>and S95 and (algaas aluminum near<br>gasllium near arsenic)                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2006/09/19 18:29 |
| S99      | 18       | (ingaas indium near gallium near (arsenic arsenide)) and "77" near k same nm and S95 and (algaas aluminum near gasllium near (arsenic arsenide))                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2006/09/19 18:30 |
| S10<br>0 | 17       | (ingaas indium near gallium near<br>(arsenic arsenide)) and "77" near k<br>same wavelength and S95 and<br>(algaas aluminum near gasllium<br>near (arsenic arsenide)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2006/09/19 19:14 |
| S10<br>1 | 17       | S100 not "I8"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR . | ON | 2006/09/19 18:31 |
| S10<br>2 | 4        | S100 not S99   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2006/09/19 18:32 |

| S10<br>3 | 22    | (ingaas indium near gallium near<br>(arsenic arsenide)) and "77" near k<br>same (wavelength ".mu.m" nm)<br>and S95 and (algaas aluminum near<br>gasllium near (arsenic arsenide)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON   | 2006/09/19 19:17 |
|----------|-------|---|---|------|------|------------------|
| S10<br>4 | 0     | ".mu.m"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON   | 2006/09/19 19:17 |
| S10<br>5 | 0     | ".mu.m"\$1  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON   | 2006/09/20 10:25 |
| S10<br>6 | . 2   | "6573527".pn.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON   | 2006/09/20 10:26 |
| S10<br>7 | 0     | "6573527".pn. and hemt and strain   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR . | ON   | 2006/09/20 10:26 |
| S10<br>8 | 0     | "6573527".pn. and hemt  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON . | 2006/09/20 10:26 |
| S10<br>9 | 1     | "6573527".pn. and transistor  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON   | 2006/09/20 10:27 |
| S11<br>0 | 11104 | (ingaas gainas gallium near indium<br>near (arsenide arsenic)) and<br>(algaas gaalas aluminum near<br>gallium (arsenic arsenide))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON   | 2006/09/20 10:39 |

| S11<br>1  | 23721359 | @ad<"20021225"<br>@rlad<"20021225"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/20 10:41 |
|-----------|----------|--|---|----|----|------------------|
| S11<br>2  | 266      | S111 and (ingaas gainas gallium near indium near (arsenide arsenic)) same strain and (algaas gaalas aluminum near gallium (arsenic arsenide)) same electron and (hemt high near electron near mobility near transistor transistor)                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/20 11:46 |
| S11<br>3  | 29       | S111 and (ingaas gainas gallium near indium near (arsenide arsenic)) same strain and (algaas gaalas aluminum near gallium (arsenic arsenide)) same electron and (hemt high near electron near mobility near transistor transistor) and graph       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/20 10:41 |
| S11<br>4  | 112      | S111 and (ingaas gainas gallium near indium near (arsenide arsenic)) same strain and (algaas gaalas aluminum near gallium (arsenic arsenide)) same electron and (hemt high near electron near mobility near transistor transistor) and wavelength  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/20 10:41 |
| S11<br>5  | 6        | S111 and (ingaas gainas gallium near indium near (arsenide arsenic)) same strain and (algaas gaalas aluminum near gallium (arsenic arsenide)) same electron and (hemt high near electron near mobility near transistor transistor) and "77" near k | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/20 10:43 |
| S11<br>6  | 14       | ("4830980"   "4908325"  <br>"5118637").PN. OR ("5196359").<br>URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/09/20 10:48 |
| S11<br>7  | 9        | ("3821783"   "4688068"  <br>"4872046"   "5016252"   "5212404"<br>  "5263040").PN. OR ("5569954").<br>URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/09/20 11:00 |
| S11<br>.8 | 9        | ("4894836"   "4974231"  <br>"5146466").PN. OR ("5263040").<br>URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/09/20 11:09 |

| S11<br>9 | 76 | S111 and (ingaas gainas gallium<br>near indium near (arsenide<br>arsenic)) and (algaas gaalas<br>aluminum near gallium (arsenic<br>arsenide)) and "77" near k                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/20 11:59 |
|----------|----|--|---|----|----|------------------|
| S12<br>0 | 40 | S111 and (ingaas gainas gallium near indium near (arsenide arsenic)) and (algaas gaalas aluminum near gallium (arsenic arsenide)) and "77" near k same (wavelength peak pl nm emision) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/20 11:48 |
| S12<br>1 | 12 | hemt and ingaas same channel and<br>emission near peak   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/20 12:22 |
| S12<br>2 | 11 | hemt and ingaas same channel and<br>emission near peak near<br>wavelength  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/20 12:01 |
| S12<br>3 | 11 | hemt and ingaas same channel and<br>emission near3 peak near<br>wavelength   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/20 12:01 |
| S12<br>4 | 11 | hemt and ingaas same channel and<br>emission near5 peak near<br>wavelength   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/20 12:03 |
| S12<br>5 | 11 | hemt and ingaas same channel and<br>emission near5 peak near5<br>wavelength  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/20 12:03 |
| S12<br>6 | 10 | hemt and ingaas same channel and<br>emission near5 peak near5<br>wavelength and S111   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/20 12:26 |

| S12<br>7 | 2   | ("5,060,030").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/09/20 12:22 |
|----------|-----|---|---|----|-----|------------------|
| S12<br>8 | 105 | ingaas and emission near5 peak<br>near5 wavelength and S111   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/09/20 12:26 |
| S12<br>9 | 127 | (ingaas indium near gallium near<br>arsenide) and emission near5 peak<br>near5 wavelength and S111      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/09/20 12:29 |
| S13<br>0 | 279 | (ingaas indium near gallium near<br>arsenide) and emission near5 peak<br>and S111                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/09/20 12:29 |
| S13<br>1 | 116 | (ingaas indium near gallium near<br>arsenide) and emission near5 peak<br>and S111 and graph             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/09/20 12:37 |
| S13<br>2 | 50  | (ingaas indium near gallium near<br>arsenide) and emission near5 peak<br>and S111 and graph and channel | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/09/20 16:38 |
| S13<br>3 | 2   | ("6639254").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/09/20 16:38 |
| S13<br>4 |     | S133 and hemt   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/09/20 16:42 |

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| S13<br>5 | 849291 | transistor ingaas same channel and peak near wavelength   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR . | ON   | 2006/09/20 16:43 |
|----------|--------|---|---|------|------|------------------|
| S13<br>6 | . 23   | transistor and ingaas same channel and peak near wavelength   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON   | 2006/09/20 16:50 |
| S13<br>7 | 0      | transistor and ingaas same<br>(two-dimensional two near<br>dimensional) near gas and peak<br>near wavelength                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON   | 2006/09/20 16:52 |
| S13<br>8 | 18     | transistor and ingaas same<br>(two-dimensional two near<br>dimensional) near gas and<br>wavelength  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON   | 2006/09/20 16:52 |
| S13<br>9 | 20     | ingaas same (two-dimensional two<br>near dimensional) near gas and<br>wavelength  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | .OR  | ON . | 2006/09/20 16:57 |
| S14<br>0 | 73     | 2-deg   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON   | 2006/09/20 16:56 |
| S14<br>1 | 21     | ingaas same (2-deg<br>two-dimensional two near<br>dimensional) near gas and<br>wavelength   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON   | 2006/09/20 16:57 |
| S14<br>2 | 21     | (ingaas gainas indium near2 gallium<br>near2 arsenide) same (2-deg<br>two-dimensional two near<br>dimensional) near gas and<br>wavelength | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON   | 2006/09/20 17:01 |

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|          |    | ·   |   |    |     |                  |
|----------|----|---|---|----|-----|------------------|
| S14<br>3 | 25 | (ingaas gainas indium near2 gallium<br>near2 arsenide) same (2-deg 2deg<br>two-dimensional two near<br>dimensional) near gas and<br>wavelength                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/09/20 17:10 |
| S14<br>4 | 22 | (ingaas gainas indium near2 gallium<br>near2 arsenide) same (2-deg 2deg<br>two-dimensional two near<br>dimensional) near gas and<br>wavelength and transistor | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/09/20 17:28 |
| S14<br>5 | 2  | ("6849866").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/09/20 21:06 |
| S14<br>6 | 2  | ("6849866").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/09/20 21:14 |
| S14<br>7 | 22 | (ingaas gainas indium near2 gallium<br>near2 arsenide) same (2-deg 2deg<br>two-dimensional two near<br>dimensional) near gas and<br>wavelength and transistor | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/09/20 22:02 |
| S14<br>8 | 1  | S147 and "20030006407".pn.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/09/20 21:15 |
| S14<br>9 | .1 | ("5010374").PN. OR ("6849866").<br>URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2006/09/20 21:18 |

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| S15<br>0 | 30     | (US-20040069991-\$).did. or<br>(US-5625204-\$ or US-5751029-\$ or<br>US-5900653-\$ or US-5258632-\$ or<br>US-5650642-\$ or US-6307221-\$ or<br>US-5773853-\$ or US-5404032-\$ or<br>US-5406099-\$ or US-5945690-\$ or<br>US-6593603-\$ or US-6639254-\$ or<br>US-5825796-\$ or US-5569954-\$ or<br>US-5550388-\$ or US-5751027-\$ or<br>US-6177684-\$ or US-5196359-\$ or<br>US-6242293-\$ or US-4688068-\$ or<br>US-5486705-\$ or US-5832018-\$ or<br>US-5441913-\$ or US-5762706-\$ or<br>US-5441913-\$ or US-4780877-\$).<br>did. or (US-5015099-\$ or<br>US-5126803-\$ or US-5585957-\$).<br>did. | US-PGPUB;<br>USPAT  | OR | ON | 2006/09/20 21:51 |
|----------|--------|---|---|----|----|------------------|
| S15<br>1 | 20     | S150 and electron near mobility   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/20 21:52 |
| S15<br>2 | 20     | S150 and electron near mobility and ingaas and algaas   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/20 21:52 |
| S15<br>3 | 3      | ("4830980"   "4908325"  <br>"5118637").PN.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/09/20 22:00 |
| S15<br>4 | 8      | "cm.sup.2 /Vs"  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/09/20 22:01 |
| S15<br>5 | 244970 | "cm.sup.2"  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/09/20 22:01 |
| S15<br>6 | 260    | (ingaas gainas indium near2 gallium<br>near2 arsenide) same "cm.sup.2"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/20 22:01 |
| S15<br>7 | 6      | (ingaas gainas indium near2 gallium<br>near2 arsenide) same (2-deg 2deg<br>two-dimensional two near<br>dimensional) near gas and<br>transistor and "cm.sup.2"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/09/20 22:02 |

| S15<br>8  | 23721359 | @ad<"20021225"<br>@rlad<"20021225"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPÓ;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2006/09/20 22:02 |
|-----------|----------|--|---|------|----|------------------|
| S15<br>9  | 5        | (ingaas gainas indium near2 gallium<br>near2 arsenide) same (2-deg 2deg<br>two-dimensional two near<br>dimensional) near gas and<br>transistor and "cm.sup.2" and S158               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2006/09/20 22:05 |
| S16<br>0  | 2        | (ingaas gainas indium near2 gallium<br>near2 arsenide) same (2-deg 2deg<br>two-dimensional two near<br>dimensional) near gas and<br>transistor and "cm.sup.2" and S158<br>and algaas | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2006/09/20 22:09 |
| S16<br>1  | 6        | ("4705361"   "4734750"  <br>"4745447").PN. OR ("4958203").<br>URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR   | ON | 2006/09/20 22:08 |
| S16<br>2  | 17262    | aluminum near2 gallium near2<br>arsenide algaas gaalas   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR   | ON | 2006/09/20 22:09 |
| S16<br>3  | 537      | (ingaas gainas indium near2 gallium<br>near2 arsenide) and S162 and<br>transistor and "cm.sup.2" and S158<br>and algaas  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR . | ON | 2006/09/20 22:10 |
| S16<br>4  | 636      | (ingaas gainas indium near2 gallium<br>near2 arsenide) and S162 and<br>transistor and "cm.sup.2" and S158  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2006/09/20 22:45 |
| \$16<br>5 | 7        | (ingaas gainas indium near2 gallium<br>near2 arsenide) and S162 and<br>transistor and "300" near "k" same<br>mobility and S158   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2006/09/20 22:37 |
| S16<br>6  | 2        | "5060030".pn. and mobility   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2006/09/20 22:44 |

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| S16<br>7 | 2   | "6639254".pn. and mobility   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR . | ON | 2006/09/20 22:44 |
|----------|-----|--|---|------|----|------------------|
| S16<br>8 | 125 | (ingaas gainas indium near2 gallium<br>near2 arsenide) and S162 and<br>transistor and "cm.sup.2" same<br>mobility and S158 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR · | ON | 2006/09/20 23:18 |
| S16<br>9 | 0   | "5258632".pn. and "300" near k   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2006/09/20 23:18 |
| S17<br>0 | 0   | "5258632".pn. and ("300" near k<br>300k)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2006/09/20 23:18 |
| S17<br>1 | 2   | "5449928".pn.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/07/09 02:56 |
| S17<br>2 | 2   | "20030006407".pn.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/07/09 02:57 |
| S17<br>3 | 298 | ingaas with channel same transistor<br>and (@ad<"20021225"<br>@rlad<"20021225")  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/07/09 02:58 |
| S17<br>4 | 8   | ingaas with channel same transistor<br>and (@ad<"20021225"<br>@rlad<"20021225") and algaas<br>with electron near supplying | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/07/09 03:01 |

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| S17<br>5 | 21  | (ingaas "In.sub.y" "Ga.sub.1-y" As indium near gallium near arsenide) with channel same transistor and (@ad<"20021225" @rlad<"20021225") and algaas with electron near supplying | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/09 03:03 |
|----------|-----|--|---|----|----|------------------|
| S17<br>6 | 9   | (ingaas indium near gallium near<br>arsenide) with channel same<br>transistor and (@ad<"20021225"<br>@rlad<"20021225") and algaas<br>with electron near supplying                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/09 03:06 |
| S17<br>7 | 1   | ingaas same emission near<br>wavelength with nm same electron<br>near mobility   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/09 03:07 |
| S17<br>8 | 0   | ingaas same emission near<br>wavelength with nm same electron<br>near mobility and<br>(@ad<"20021225"<br>@rlad<"20021225")   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/09 03:08 |
| S17<br>9 | 57  | ingaas same emission near<br>wavelength with nm and<br>(@ad<"20021225"<br>@rlad<"20021225")  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/09 03:11 |
| S18<br>0 | 354 | ingaas same electron near mobility<br>and (@ad<"20021225"<br>@rlad<"20021225")   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/09 03:08 |
| S18<br>1 | 0   | S179 and S180  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/09 03:08 |
| S18<br>2 | 0   | ingaas same emission near<br>wavelength with nm and<br>(@ad<"20021225"<br>@rlad<"20021225") and ingaas<br>same electron near mobility  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/09 03:09 |

| S18<br>3 | 1        | "20030006407".pn. and channel  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/09 03:14 |
|----------|----------|--|---|----|----|------------------|
| S18<br>4 | 1        | "5258632".pn. and ingaas   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/09 03:20 |
| S18<br>5 | 1356     | ingaas and electron near mobility<br>and (@ad<"20021225"<br>@rlad<"20021225")                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/09 03:20 |
| S18<br>6 | 354      | ingaas same electron near mobility<br>and (@ad<"20021225"<br>@rlad<"20021225")                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/09 03:20 |
| S18<br>7 | 220      | ingaas with electron near mobility<br>and (@ad<"20021225"<br>@rlad<"20021225")                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/09 03:21 |
| S18<br>8 | 23844469 | ingaas with electron near mobility<br>and ingaas with<br>emission(@ad<"20021225"<br>@rlad<"20021225")      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/09 03:21 |
| S18<br>9 | 3        | ingaas with electron near mobility<br>and ingaas with emission and<br>(@ad<"20021225"<br>@rlad<"20021225") | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/09 03:22 |
| S19<br>0 | 5        | ingaas with electron near mobility with nm and (@ad<"20021225" @rlad<"20021225")                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/09 03:22 |

| S19<br>1  | 220      | ingaas with electron near mobility<br>and (@ad<"20021225"<br>@rlad<"20021225")  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON   | 2007/07/09 03:23 |
|-----------|----------|---|---|----|------|------------------|
| S19<br>2  | 1        | ingaas with electron near mobility<br>and (@ad<"20021225"<br>@rlad<"20021225") and "5258632".<br>pn.                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON   | 2007/07/09 03:23 |
| S19<br>3  | 2        | ingaas with electron near mobility<br>with "cm.sup.2 /Vs "and<br>(@ad<"20021225"<br>@rlad<"20021225") and "5258632".<br>pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON   | 2007/07/09 03:23 |
| S19<br>4  | 2        | ingaas with electron near mobility with "cm.sup.2 /Vs"and (@ad<"20021225" @rlad<"20021225") and "5258632". pn.              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON   | 2007/07/09 03:24 |
| S19<br>5  | 0        | ingaas with electron near mobility with "cm.sup.2 /Vs" and (@ad<"20021225" @rlad<"20021225") and "5258632". pn.             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON   | 2007/07/09 03:44 |
| S19<br>6. | 23844468 | ingaas with electron near mobility<br>with "cm.sup.2 /Vs"and<br>(@ad<"20021225"<br>@rlad<"20021225")                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON   | 2007/07/09 03:24 |
| S19<br>7  | 0        | ingaas with electron near mobility<br>with "cm.sup.2 /Vs" and<br>(@ad<"20021225"<br>@rlad<"20021225")                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON . | 2007/07/09 03:24 |
| S19<br>8  | 3        | ingaas with electron near mobility<br>with "cm.sup.2" and<br>(@ad<"20021225"<br>@rlad<"20021225")                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON   | 2007/07/09 03:37 |

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| S19<br>9 | 193 | ingaas with emission with<br>wavelength   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON   | 2007/07/09 03:37 |
|----------|-----|---|---|------|------|------------------|
| S20<br>0 | 145 | ingaas with emission with wavelength and (@ad<"20021225" @rlad<"20021225")                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON   | 2007/07/09 03:38 |
| S20<br>1 | 56  | ingaas with emission with<br>wavelength with (nanometer nm)<br>and (@ad<"20021225"<br>@rlad<"20021225")       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON   | 2007/07/09 03:38 |
| S20<br>2 | 145 | ingaas with emission with wavelength and (@ad<"20021225" @rlad<"20021225")                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR . | ON   | 2007/07/09 03:40 |
| S20<br>3 | 97  | ingaas with emission with<br>wavelength and (@ad<"20021225"<br>@rlad<"20021225") and algaas                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON . | 2007/07/09 03:41 |
| S20<br>4 | 1   | ingaas with emission with wavelength and (@ad<"20021225" @rlad<"20021225") and algaas and ingaas with channel | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON   | 2007/07/09 03:41 |
| S20<br>5 | 6   | ("20030006407" "5449928" "66392<br>54").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON   | 2007/07/09 03:44 |
| S20<br>6 | 3   | ("20030006407" "5449928" "66392<br>54").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>IBM_TDB             | OR   | ON   | 2007/07/09 03:45 |

| S20<br>7 | 1   | ("20010011733").PN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>IBM_TDB             | OR | ON   | 2007/07/09 03:45 |
|----------|-----|--|---|----|------|------------------|
| S20<br>8 | 11  | ingaas with channel and algaas and ingaas with (light emission wavelength) with (nanometer nm) and (@ad<"20021225")  @rlad<"20021225")                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON   | 2007/07/09 11:34 |
| S20<br>9 |     | "20010011733".pn. and transistor   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON . | 2007/07/09 11:30 |
| S21<br>0 | 40  | transistor and ingaas and algaas<br>and ingaas with (light emission<br>wavelength) with (nanometer nm)<br>and (@ad<"20021225"<br>@rlad<"20021225")     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON   | 2007/07/09 11:34 |
| S21<br>1 | 232 | transistor and ingaas and algaas<br>and ingaas with (light emission<br>wavelength) and (@ad<"20021225"<br>@rlad<"20021225")                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON   | 2007/07/09 11:34 |
| S21<br>2 | 21  | transistor and ingaas and algaas<br>and ingaas with (light emission<br>wavelength) and (@ad<"20021225"<br>@rlad<"20021225") and ingaas<br>with channel | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON   | 2007/07/09 12:07 |
| S21<br>3 | 66  | transistor and ingaas and algaas<br>and (light near emission ) and<br>(@ad<"20021225"<br>@rlad<"20021225") and channel                                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON   | 2007/07/09 12:18 |
| S21<br>4 | 9   | (phemt pseudomorphic near hemt p<br>adj hemt) and light near emission<br>and (@ad<"20021225"<br>@rlad<"20021225")                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON   | 2007/07/09 12:41 |

| S21<br>5 | 1001 | ingaas and algaas and gaas and<br>channel and light and<br>(@ad<"20021225"<br>@rlad<"20021225")  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON   | 2007/07/09 12:42 |
|----------|------|--|---|----|------|------------------|
| S21<br>6 | 262  | ingaas and algaas and gaas and<br>channel and light and strain and<br>substrate and transistor and<br>(@ad<"20021225"<br>@rlad<"20021225")                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON   | 2007/07/09 12:42 |
| S21<br>7 | 175  | ingaas and algaas and gaas and<br>channel and light and strain and<br>substrate and transistor and<br>electron near mobility and<br>(@ad<"20021225"<br>@rlad<"20021225") | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON   | 2007/07/09 12:49 |
| S21<br>8 | 0    | "5486705".pn. and light  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON   | 2007/07/09 12:49 |
| S21<br>9 | 0    | "5486705".pn. and emission   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON   | 2007/07/09 12:49 |
| S22<br>0 | 0    | "5486705".pn. and wavelength   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON   | 2007/07/09 12:50 |
| S22<br>1 | 0    | "5486705".pn. and "5060030"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON   | 2007/07/09 12:50 |
| S22<br>2 | 0    | "5060030".pn. and light  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON . | 2007/07/09 12:50 |

| S22<br>3 | 2   | "5060030".pn.                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/09 12:50 |
|----------|-----|------------------------------|---|----|----|------------------|
| S22<br>4 | 0   | "5060030".pn. and emission   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/09 12:50 |
| S22<br>5 | 0   | "5060030".pn. and wavelength | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/09 12:50 |
| S22<br>6 | . 0 | "5258632".pn. and light      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/09 12:51 |
| S22<br>7 | 0   | "5258632".pn. and emission   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/11 16:31 |